

structure comprises:

- a) a first nucleic acid molecule comprising a first region and a second region, said first region upstream of said second region;
- b) a second nucleic acid molecule that is complementary to said first region, said second nucleic acid molecule having a 3' end that is not extendable by a polymerase when said second nucleic acid molecule is hybridized to said first nucleic acid molecule; and
- c) a third nucleic acid molecule that is complementary to said second region, said third nucleic acid molecule comprising a label, wherein said labeled cleavage product comprises said label following cleavage of said cleavage structure.

83. The method of Claim 82, wherein said cleavage agent comprises a 5' nuclease.

84. The method of Claim 83, wherein said cleavage agent comprises a thermostable 5' nuclease.

85. The method of Claim 84, wherein said thermostable 5' nuclease comprises Taq polymerase.

86. The method of Claim 82, wherein said first, second, or third nucleic acid molecule comprises a nucleotide analogue.

87. The method of Claim 82, wherein said 3' end that is not extendable by a polymerase comprises a nucleotide that is not complementary to said first nucleic acid molecule when said second nucleic acid molecule is hybridized to said first nucleic acid molecule.

88. The method of Claim 82, wherein said first region and said second region of said first nucleic acid molecule are separated from each other by at least one nucleotide distance.